

Portable UV system for radiation curing of printing inks, varnishes, adhesives, and sealing compounds

mobile UV curing system

mobiles UV-Härtungssystem

Key features

- Mobile (portable) UV curing system
- Compact and robust device with integrated control unit, power supply, cooling blower, and shutter
- Lamp power 250 W
- Emission window 100 mm x 50 mm
- Cold start-up of lamp < 20 s
- Automatic energy-saving standby function
- Wide-range power supply for supply voltages of 90 - 264 VAC and 47-63 Hz
- Inlet connector C14, 3-phase for power cords of type 12 C13
- Real active power control
- High electrical efficiency
- Constant power output compensates for supply voltage fluctuations
- No power factor correction necessary
- Integrated operating hour counter for device, reflector, and lamp (optional accessory required)
- Self-test function and error indication
- Automatic cool-down of lamp after switch-off
- Burn threshold according to DIN EN 563 < 51 °C 1 min.
- Photobiologic Safety according to DIN EN 62471:2009-03
- System weight < 3.4 kg

Options and accessories

- Ozone-forming UV lamps
- UV lamps with modified emission spectra (doped lamps)
- Service tool with display
- Special transmission filters on request
- Higher lamp power and larger emission window on request
- Shock-resistant carrying case IP 55 incl. various accessories

With its compact dimensions and easy operation, the **mobile UV curing system** is perfectly suitable for manual applications in laboratories, production lines, and for general repair jobs, notably for field service deployment.

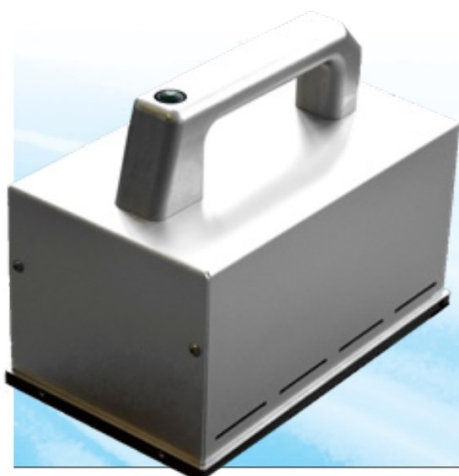
The unit is lightweight and built for single-handed operation. The built-in wide-range power supply allows for world-wide operation directly from the mains supplies. The **mobile UV curing system** is a practical and versatile tool for manifold applications in the areas of, e.g., R&D, production and repair work, and general service activities.

Examples of possible applications:

- Curing of printing inks, varnishes, and special coatings
- Curing of glass fiber reinforced polyester resins (e.g., repair work on glass fiber reinforced synthetic surfaces of automobiles, ships, etc.)
- Curing of adhesives in glass and plastics processing, elastomers, and metals
- Sealing, fastening, laminating, and casting of components in the electrotechnical and electronic industries
- Fluorescence analysis, e.g., for material inspection, dye penetrant testing, and layer thickness testing of coatings

Safety

The unit is equipped with automatic safety functions. Cooling of the internal components is constantly monitored. In the event of fan failure or overheating, the device performs an automatic safety shutdown. The rotary reflector is only opened if the unit has not detected an internal error, the user has activated the operating push button, and the unit is not oriented beyond 30° out of the horizontal plane. Output power is immediately increased to full-load operation once the shutter is opened. If the unit is oriented beyond approx. 30° out of the horizontal plane during operation, the shutter is closed after a pre-defined timeout and the lamp power is reduced to standby power. The tilt safety function can be deactivated on request for special applications.



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Standard scope of delivery

- 1 pcs. mobile UV curing system 250W
- 1 pcs. CD including operating manual
- 1 pcs. quick start guide
- 1 pcs. replacement lamp

Optional accessories

- 1 pcs. hard-shell impact-resistant carrying case IP55
- incl. 1 pcs. protective eyewear
- incl. 1 pair protective gloves
- incl. 1 pcs. replacement lamp
- inkl. cleaning cloths

Optional advanced accessories

- service handheld monitor incl. cable

Technical specifications

Lamp power	250 W	
Specific lamp power	20 W/cm	
Emission spectrum	mercury spectrum, ozone-free; others on request	
Emission window	100 mm x 50 mm; others on request	
Electrical efficiency	> 97%	
Dimensions and weight	UV unit: 250 mm x 150 mm x 200 mm 3.4 kg	Carrying case: 555 mm x 428 mm x 221 mm ca. 8.0 kg including contents
Mains supply frequency	48 to 62 Hz	
Mains supply voltage	90 to 295 V (wide-range)	
cos(phi)	> 0.95 (no power factor correction necessary)	
Power switch	with indicator LED for on-off and error code indication	
Power supply cable	C14 3-phase (L, N, PE)	
Ambient temperature	0 to 40 °C	
Protection class	IP 20	
Standards / EMC	EN 55011:2009, Group 1, Class A EN 61000-6-4:2007 EN 61000-6-2:2005	
Standards / Safety	EN 50178:1998	
Burn threshold	DIN EN 563 < 51°C 1 min.	
Photobiological safety	DIN EN 62471:2009-03	